

Ultrasonic thickness gauge SAUTER TD-US



Compact material thickness gauge with external sensor

Features **Technical data** **Accessories**

- **External sensor** for difficult-to-access measuring points
- **Data interface RS-232** included
- **Base plate for adjustment** incorporated
- **Selectable measuring units:** mm, inch
- **Delivered in a robust carrying case**






























- Precision: 0,5 % of [Max] + 0,1 mm
- Dimensions W×D×H 120×65×30 mm
- Battery operation, batteries standard 4× 1.5 V AAA, AUTO-OFF function to preserve batteries
- Net weight approx. 0,164 kg

- **Data transfer software**, interface cable included, SAUTER ATC-01
- **External sensor**, 5 MHz, ø 6 mm, for thin test materials: Measuring range (steel) 1–50 mm, SAUTER ATB-US01
- **External sensor**, 5 MHz, ø 12 mm, for hot test materials: Measuring range (steel) 1–225 mm at normal temperatures, 4–100 mm at temperatures of up to 300 °C, SAUTER ATB-US02
- **External sensor**, 5 MHz, ø 8 mm, SAUTER ATB-US06
- **External sensor**, 5 MHz, ø 10 mm, SAUTER ATU-US09
- **External sensor**, 5 MHz, ø 10 mm, transducer at an angle of 90°, SAUTER ATU-US10
- **Ultrasound contact gel**, standard, can be reordered, approx. 60 ml, SAUTER ATB-US03

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|----------|--|--|--|--------|--|
| STANDARD | | | | OPTION | |
| | | | | | |

| Model | Measuring range [Max] mm | Readout [d] mm | Sensor | Sound velocity m/sec | Option Factory calibration certificates | |
|-------------------------|--------------------------------|----------------------|----------------|-------------------------|--|--|
| | | | | | KERN | |
| SAUTER TD 225-0.1US. | 1,2-225 | 0,1 | 5 MHz ø 8 mm | 500-9000 | 961-113 | |

Pictograms

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|  Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required. |  Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc. |  Battery operation: Ready for battery operation. The battery type is specified for each device. |
|  Calibration block: standard for adjusting or correcting the measuring device. |  Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements |  Rechargeable battery pack: rechargeable set. |
|  Peak hold function: capturing a peak value within a measuring process. |  Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc. |  Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available. |
|  Scan mode: continuous capture and display of measurements. |  PC Software: to transfer the measurement data from the device to a PC. |  Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request. |
|  Push and Pull: the measuring device can capture tension and compression forces. |  Printer: a printer can be connected to the device to print out the measurement data. |  Motorised drive: The mechanical movement is carried out by a electric motor. |
|  Length measurement: captures the geometric dimensions of a test object or the movement during a test process. |  GLP/ISO record keeping: of measurement data with date, time and serial number. Only with SAUTER printers |  Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper). |
|  Focus function: increases the measuring accuracy of a device within a defined measuring range. |  Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details. |  Fast-Move: the total length of travel can be covered by a single lever movement. |
|  Internal memory: to save measurements in the device memory. |  Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model |  DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram. |
|  Data interface RS-232: bidirectional, for connection of printer and PC. | |  Factory calibration: The time required for factory calibration is specified in the pictogram. |
|  Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices. | |  Package shipment: The time required for internal shipping preparations is shown in days in the pictogram. |
|  Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices. |  ZERO: Resets the display to "0". |  Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram. |

Your KERN specialist dealer:

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